In Two Sections—Section Two

Volume 42 Number 7

MECHANICAL ENGINEERING

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JULY 1920

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SOCIETY AFFAIRS

Report of Nominating Committee—Resolutions on Death of Dr. Brashear—Past Presidents Celebrate Fortieth Anniversary of Partnership—New Sections Formed—Local Sections Conference—A. S. M. E. Council Meeting—Section Meetings—Personals—Necrology—Employment Bulletin—Candidates for Membership

Report of the Nominating Committee for 1920

TO THE SECRETARY:

This Committee, being the first Nominating Committee to operate under the provision of the report of the Aims and Organization Committee, as adopted by the Council and by the membership of the Society, proceeded to consider the candidates suggested by the various groups of Sections in accordance with the recommendations of the Aims and Organization Committee.

The name of each and every nominee was obtained by previous correspondence with the several Sections.

In choosing the individual for the office to which he was nominated, this Committee exercised particular care as to the fitness of the candidate for the position, and to his willingness and ability to serve, with the view to continuing the progressive work of the Society.

We therefore unanimously submit the following nominees:

For President:

EDWIN S. CARMAN, Cleveland, Ohio.

For Vice-Presidents:

LEON P. ALFORD, New York, N. Y.

JOHN L. HARRINGTON, Kansas City, Mo.

ROBERT B. WOLF, Philadelphia, Pa.

For Managers:

LOUIS C. NORDMEYER, St. Louis, Mo.

HENRY M. NORRIS, Cincinnati, Ohio.

CARL C. THOMAS, Baltimore, Md.

For Treasurer:

WILLIAM H. WILEY, New York, N. Y.

Respectfully submitted,

(signed)

GEO W. GALBRAITH,
ELLIOTT H. WHITLOCK,
E. O. EASTWOOD,
GEO A. WESCHLER,
CHESTER B. LORD,
H. P. FAIRFIELD, *Secretary,*
G. W. PARSONS, *Chairman.*

June 15, 1920. *Nominating Committee for 1920.*

Resolutions on the Death of Dr. John A. Brashear

At its meeting in St. Louis on May 24, in connection with the Spring Meeting, the Council adopted the following resolutions on the death of Dr. John A. Brashear prepared by a Committee consisting of Dr. Ira N. Hollis, Dean M. E. Cooley, Dean D. S. Kimball and Ambrose Swasey:

DR. JOHN A. BRASHEAR

In the death of John A. Brashear The American Society of Mechanical Engineers has lost one of its happiest possessions. He was an honor to the profession of engineering, wherein his life was spent among the higher things. He grew up in plain surroundings and in the wholesome atmosphere where wealth does not count. His career was typically American, for he became an engineer through apprenticeship as a workman and achieved his fame as a benefactor of the race through unselfish and kindly service. Everything he did seemed to be a preparation for his important contributions to pure science. His telescopes will be looking out into the depths of space for generations to come and in the contemplation of the Infinite they must exercise a permanent influence upon the materialism of this age of mechanical energy. It was fortunate that our country had a mind trained at the work bench with idealism enough to devote itself to the manufacture of instruments of precision for use in astronomy and physics. His friendship with eminent scientists and his membership in a large number of learned societies made him a most attractive and interesting figure. Without training for oratory, he yet was a most interesting speaker to his colleagues and to the plain people who loved to hear him. He was endowed with that kind of unusual influence that would make one hesitate to do wrong in his presence.

One of the reports of the last tribute paid to him in Pittsburgh contains the words: "In the auditorium sat men and women from all walks of life. There were wealthy men and social leaders who had helped the great philosopher push forward and make possible his life's work which returned them twofold benefits; there were those who had been associated with him in lesser capacities, and others were parents and children from the poor districts whose welfare Uncle John held as dear as his own."

His great funeral wherein he was followed to the grave by rich and poor alike is one of the most encouraging things of American life. No power through political influence, through wealth, or through birth could have brought to the services so many thousands of sorrowing friends to look upon him for the last time. From a poor apprentice he had become the best-known and most universally loved citizen of Pittsburgh. At the International Exposition in San Francisco in 1915 he was accredited by the Governor of Pennsylvania as that state's most distinguished citizen. All would have turned alike to him as one endowed with the finest qualities of our race, and this last farewell in the place where his work had been done is a striking proof that we still cherish in our country the ideals of our forefathers. Not only in his career as an engineer-scientist but in his everyday life, the members of our Society will recall him as a gentleman whose footsteps all would yearn to follow. His married life was perfect, its companionship having been best expressed in the words that he selected for his wife's tomb: "We have loved the stars too fondly to be fearful of the night." There our Society may well leave his memory as an enduring influence for good.

These resolutions were ordered printed in MECHANICAL ENGINEERING and sent to the members of the family. An account of the life and work of our beloved Past-President was published in the June issue of MECHANICAL ENGINEERING.

Railroad Section Completes Organization

E. B. Katte, *Chairman,* George W. Rink, *Vice-Chairman,* C. W. Huntington, Henry B. Oatley and W. H. Winterrowd have been elected by letter ballot as the Executive Committee of the new Railroad Section.

A meeting of the Committee will at once be called to appoint sub-committees.

The Section will conduct a session at the Annual Meeting this year and any members having suggestions are invited to communicate them to the chairman at the Society's address.

Aeronautics Section Authorized

The Council has now acted on the petition of members for a Professional Section on Aeronautics, and the Section will be organized as soon as possible.

Mr. Howard E. Coffin, a member of the Special Committee on Professional Sections representing Aeronautics, secured this petition.

The list of 170 names appended to the petition includes some well-known members of the Society in this field: Forrest E. Cardullo, former Chairman of our Buffalo Section; Park A. Dallas, former Chairman of our Increase of Membership Committee at Atlanta; Arthur M. Greene, Jr., Chairman of the Research Committee; A. L. Jenkins, C. E. Lucke, Lionel S. Marks, Melville W. Mix; James Hartness, Past-President of the Society; C. F. Kettering, Past-President of the Society of Automotive Engineers; S. W. Stratton, Director of the Bureau of Standards; and Orville Wright, Honorary Member of the Society, are among those listed.

The register of this section is still open for any who wish to join.

Fuels Section Under Way

W. N. Polakov, Chairman, Prof. L. P. Breckenridge and F. F. Uehling, Secretary, acting as the Organizing Committee of the Fuels Section, have announced the election of the Executive Committee by letter ballot of the Section. The Executive Committee consists of Prof L. P. Breckenridge, Chairman, Prof. G. F. Gebhardt, Vice-Chairman, F. R. Low, Joseph Harrington and F. F. Uehling.

The first meeting of the Executive Committee was held in New York on June 9, and the following two sub-committees were appointed for immediate work to be undertaken:

Sub-Committee on Information: Messrs. E. A. Lucey, C. E. Lucke, C. C. Phelps, W. N. Polakov, F. G. Tryon and Floyd W. Parsons.

Sub-Committee on Meetings and Papers: Messrs. Henry Kreisinger, David Moffat Myers, Arthur L. Rice and George A. Stetson.

The Section expects to conduct a session at the Annual Meeting this year, and the Sub-Committee on Meetings and Papers will immediately proceed to decide on topics for the sessions and to secure papers.

The register is still open for any members who wish to join the Fuels Section. To date 425 have registered

turing machine tools exclusively, the partners soon turned to the designing and construction of telescopes, the first one being completed in 1881. During the following years the firm gained world-wide reputation for the high quality and precision of its astronomical instruments. It made a distinguished record during the war.

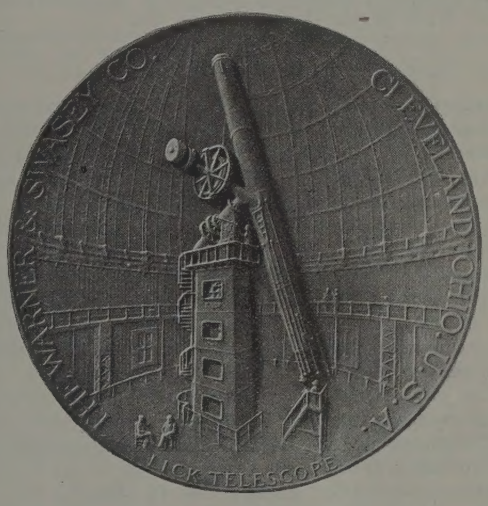
An appropriate medal to commemorate the fortieth anniversary of the partnership has been struck by Victor Brenner of New York.

Power Test Codes

The Main Committee on Power Test Codes held its seventh quarterly meeting in the rooms of the Society on June 7. This meeting proved to be a very important one and many of the Individual Committees presented full reports or tentative drafts of the test codes which had been assigned to them.

The committees which presented completed codes in tentative form were No. 1 on General Instruction, No. 7 on Reciprocating Displacement Pumps, No. 8 on Centrifugal and Rotary Pumps, No. 12 on Condensers, and No. 14 on Evaporating Apparatus. Reports of progress containing copies of codes in various stages of development were received from Committee No. 2 on Definitions and Values, Committee No. 9 on Displacement Compressors and Blowers, No. 12 on Water Heating and Cooling Equipment, and No. 16 on Gas Producers. The Committee also discussed certain topics connected with the Test Code on Steam Engines (No. 5) and the Test Code on Hydraulic Power Plants (No. 18), which codes had been presented to the Committee at previous meetings.

As will be seen from the above, the work of this large and important Committee is well under way and it is very probable that some of the codes will be presented to the Council in the early fall. A Circular of Information describing the organization and method of procedure of this Committee has recently been prepared, copies of which may be obtained by those members of the Society specially interested in its work.



MEDAL STRUCK TO COMMEMORATE FORTIETH ANNIVERSARY OF THE WARNER-SWASEY PARTNERSHIP

Past-Presidents Celebrate Fortieth Anniversary of Partnership

The fortieth anniversary of the partnership of Worcester R. Warner and Ambrose Swasey, founders of the Warner and Swasey Co. and both past-presidents of The American Society of Mechanical Engineers, was celebrated on May 19, 1920.

Born on New England farms in the same year, 1846, Mr. Warner and Mr. Swasey worked on the land until they were nineteen. Then they entered an Exeter, N. H., machine works as apprentices within a few months of each other. They became warm friends and upon the completion of their apprenticeships in 1870 both became employees of Pratt & Whitney, Hartford, Conn.

On May 5, 1880, the two established the firm of Warner & Swasey, their initial investment being their combined savings up to that time. Their first venture was in Chicago, but forty years ago few skilled mechanics were found so far from New England and on that account they removed to Cleveland the following year. The first factory building was constructed in 1881 on the site occupied by a portion of the present plant. From manufac-

New Sections of the Society

At the Spring Meeting the Council approved petitions of the members in Akron and Columbus, Ohio, for local sections. Both of these groups have temporary organizations which will be further developed during the summer and necessary programs and committees appointed to enable them to take their proper

place in the work of the Society in the fall. The Akron Section will pursue its activities in conjunction with the Engineering Society of Akron, with headquarters at 80 South Main Street, Akron, and the Columbus Section with the Columbus Engineers' Club, with headquarters at the Southern Hotel, Columbus.

Engineering Society of Akron Holds First Annual Dinner

The Engineering Society of Akron held its first annual dinner at the University Club, Akron, on June 11. This organization has probably accomplished more in the first year of its existence than any other distinctively local engineering society. It now has a membership of nearly 500, with a paid business manager, permanent headquarters, the nucleus of an engineering library and a monthly bulletin, and it is actively participating in not only the municipal affairs of Akron, but also in state affairs, being a member of the Ohio Technical Societies. Its president, Fred E. Ayre, was present at the recent conference in Washington when the Federated American Engineering Societies was formed. A large part of the credit of the success of this organization is due to Messrs. E. P. Roberts and M. B. Robinson, both members of the A.S.M.E. The new officers of the organization are as follows:

President, G. Gale Dixon, Bureau of Water Works Improvement, City of Akron; Vice-President, M. R. Replogle, Goodyear Tire & Rubber Co.; Directors: B. Dales, B. F. Goodrich Co.; L. G. Swigart, Swigart, Ehrman & Legreid; J. H. Vance, B. F. Goodrich Co.; B. A. Waltz, Portage Rubber Co.

Local Sections Conference

At the Sections Conference held on May 24 at St. Louis, one-half of the sections were represented in spite of the fact that no traveling expenses were paid, and several of the sections had more than one representative of their Executive Committee present. The Committee on Local Sections had invited Mr. J. H. Hamilton, a representative of the St. Louis Section of the American Institute of Electrical Engineers and Dr. S. W. Russe, a representative of the St. Louis Section of the American Chemical Society, to give those present at the luncheon the benefit of their experiences in their respective organizations. President Miller and several members of the Council also attended, and Mr. Miller spoke briefly on the accomplishments of the Local Sections.

Later in the day the Section representatives held an informal conference at which the following conclusions were reached: The Executive Committees in each Local Section will appreciate receiving an expression of sentiment from members of the Society on the question now up for discussion as to giving a vote to Junior members of the Society and whether there should be compulsory promotion after a certain age from the Junior grade. The Local Sections will endeavor to establish a uniform policy of action regarding Student Branches in the territory of any section in order that they may be more closely allied with the work of the Society. Local Sections should "big brother" Student Branches and should consider it a duty to furnish speakers for Student Branch meetings, and if possible occasionally hold joint meetings with them.

Support of the National Department of Public Works Association was discussed and favored. Therefore members, through their Sections, should use their efforts to insure favorable action by Congress on the Jones-Reavis Bill.

The Mechanical Engineering Bulletin, mailed to each member of the Society just prior to the Spring Meeting, was discussed and each Section requested to advise the Secretary of the consensus of opinion of its membership regarding this method of disseminating information regarding the Society's activities. Other matters discussed and favored by the Conference were that Executive Committees of Local Sections hold regular meetings at stated periods rather than have meetings at irregular periods, subject to the call of the Chairman; and that the Program Committees of Local Sections should make out the year's program in advance, secure speakers and stick to the dates and subjects so planned. This will enable the members to plan definitely ahead as to attendance at Local Sections meetings.

A. S. M. E. Council Meeting

Dues of Members Remitted—Local Sections Established at Akron and Columbus, Ohio—Professional Sections on Aeronautics and Fuels Formed—Appointments, etc.

A stated meeting of the Council was held in St. Louis, Mo., on May 24, in connection with the Spring Meeting of the Society.

Spring Meeting, 1921. Chicago, Ill., was chosen as a place of the next Spring Meeting of the Society.

Dues of Members Remitted. The following were declared members without dues, having come within the provisions of B-16 entitling them to remission of dues after having paid for thirty-five consecutive years: G. C. Anthony, C. S. Beach, A. C. Campbell, E. H. Foster, W. J. P. Moore, M. R. Muckle, Jr., R. V. Norris, H. de B. Parsons, C. B. Rowland, P. B. de Schweinitz, J. M. Sweeney, J. I. Wells, and Charles W. Whiting.

The following were declared members without dues, having come within the provisions of B-16 entitling them to remission of dues after having paid for thirty consecutive years and having reached the age of seventy years: William Corry, C. J. Ebbets, Peter Ehlers, Edward H. Jones, R. G. Lewis, Carl J. Mellin, W. J. Muncaster, A. C. Rice, Newell Sanders and D. Shirrell.

Local Sections. Petitions of members to form local sections in Akron, Ohio, and in Columbus, Ohio, respectively, were granted.

Professional Sections. Petitions from members for the formation of Professional Sections on Aeronautics and on Fuels, respectively, were granted.

Standard Tonnage Basis for Refrigeration. The following were appointed as a Committee on Standard Tonnage Basis for Refrigeration and Owners' Method of Determining Rating: Peter Neff, Henry Torrance, F. E. Matthews, John E. Starr, G. T. Voorhees, and Chas. W. Berry.

Research. It was voted to offer the service of the Research Committee to the Engineering Division of the National Research Council.

Boiler Code. Past-President Mortimer E. Cooley was appointed on the Boiler Code Committee in place of Prof. R. C. Carpenter, deceased.

The Committee was authorized to offer representation on its Conference Committee to all Federal Departments utilizing the Code, and to immediately grant the request of the U. S. Bureau of Mines for such representation.

Interpretations Nos. 253, 268, 275, 278, 283, 288, 291 to 294, and 296 to 298 were approved with slight verbal amendments and are published in this issue of MECHANICAL ENGINEERING.

Power Test Codes. Prof. W. J. Wohlenberg was appointed on the Individual Committee on Fuels, and Prof. R. M. Anderson was appointed on the Individual Committee on Refrigerating Machines and Plants.

Resolutions on Death of Dr. Brashear. These were presented by Dr. Ira N. Hollis and accepted, and are published in this issue of MECHANICAL ENGINEERING.

American Engineering Standards Committee. Mr. Elwood Burdsall was appointed on the Sectional Committee on Screw Threads, this being a Joint Committee with the Society of Automotive Engineers under the American Engineering Standards Committee.

Appointments by the President. The appointments of Frank B. Gilbreth and John H. Barr to represent the Society at the meeting of the Engineering Section of the National Research Council in New York on April 27, were confirmed.

The appointment of Prof. R. H. Fernald to represent the Society at the Annual Meeting of The Franklin Institute on May 19, was confirmed.

L. P. Alford, D. S. Kimball, E. S. Carman, Arthur L. Rice, W. B. Gregory, Paul Wright, W. A. Palmer, L. C. Nordmeyer, W. A. Hanley, R. H. Fernald, H. P. Porter and Calvin W. Rice were confirmed as appointees of the Society at the Organizing Conference called by the Joint Conference Committee and held in Washington, D. C., June 3 and 4. An account of this Conference appears elsewhere in this issue of MECHANICAL ENGINEERING.

CALVIN W. RICE, *Secretary.*

Section Meetings

ATLANTA:
June 29. Plate dinner at one of the clubs. Election of officers.

BOSTON:
June 25. Outing—afternoon and evening.

BUFFALO:
April 6. A talk was given on the work of educating blinded soldiers to lines of usefulness, by L. W. Wallace, Director of Industrial Education, Red Cross Institute for Blind, at Evergreen, Baltimore, Md.
May 4. Business meeting; address by Calvin W. Rice, Secy. Am. Soc. M. E.

CHICAGO:
June 8. The Great St. Lawrence, by H. C. Gardner, President of the Great Lakes-St. Lawrence Tidewater Association.

CLEVELAND:
May 25. Joint meeting with Cleveland Engineering Society. Gas Warfare Lessons, by Frederick Pope, of Moses Pope & Trainer, Inc., Consulting Engineers, New York City.
June 8. All-day session. Inspection of Industrial Plants. Dinner at the University Club; Speakers; Col. Edward A. Deeds, of Dayton, O., and E. J. Cattell, of Philadelphia.

CONNECTICUT:
MERIDEN BRANCH:
May 7. Business meeting was held.
May 21. Machine Switching Equipment, by E. H. Everit, Chief Engineer, Southern New England Telephone Co.
June 24. Inspection of Aeolian Co. Factory. Manufacture of Talking-Machine Records, by H. L. Thompson, Superintendent Record Dept., Aeolian Co., Meriden, Conn.; also The Manufacture and Use of Talking-Machine Spring Motors, by E. W. Carruth, Production Manager, Aeolian Co.

NEW HAVEN BRANCH:
June 2. Business meeting. Election of officers.

LOS ANGELES:
May 13. Recent Developments in Physics, by Dr. Charles E. St. John, of Mt. Wilson Observatory.

MILWAUKEE:
May 19. With Milwaukee Engineering Society. The Coming Science of Acoustical Engineering, by Prof. Vladimir Karapetoff, Cornell University, Ithaca, N. Y.

MINNESOTA:
May 17. Annual meeting and dinner. Election of officers.

NEW ORLEANS:
June 4. The Recent Installation of a Large Turbo-Alternator at Niagara, by W. M. White, Chief Engineer, Hydraulic Dept. Allis-Chalmers Co., Milwaukee, Wis.

PHILADELPHIA:
June 4. Business meeting was held.

SAN FRANCISCO:
April 29. Visited the Moore Shipbuilding Co. and the Skandia Pacific Co.

TOLEDO:
June 3. Talk on the Relation of the Engineer to the Public, by Fred J. Miller, President Am.Soc.M.E.

WASHINGTON STATE:
June 9. Meeting and banquet. Speakers: R. M. Dyer, C. W Tubby, and E. O. Eastwood.

PERSONALS

CHANGES OF POSITION

R. S. JOHNSON has resigned as factory manager of the Smalley General Company, Bay City, Mich., to assume a similar position with Parkersburg Machine Company, Parkersburg, W. Va.

J. A. WIDMER has left the employ of the Sperry Gyroscope Company, where he was experimental engineer, to take a position as development engineer with the Square D Company of Detroit, Mich.

EDWIN R. DOUGLAS, formerly of The American Rolling Mill Company, is now connected with The Cincinnati Ball Crank Company of Cincinnati, Ohio.

MICHAEL J. CARROLL has resigned his position as designer with the Dyneto Electric Corporation of Syracuse, N. Y., to become checker for the Remington Typewriter Company, Smith Premier Works, of Syracuse.

EDWARD C. WELLS, until recently engineer with Ford, Bacon & Davis, New York City, is now with The Central Foundry Company in its branch office at Holt, Ala.

M. W. TABER has severed connections as district manager for the H. H. Robertson Company of Detroit, and is now affiliated with the Auto Manufacturers Service Company as vice-president.

O. L. BEAR, formerly construction engineer, Laundryowners National Association, La Salle, Ill., is now associated with the Graver Corporation of East Chicago, Ind.

J. RODNEY SWETTING has accepted a position as investigator in the Cost Reduction Division of the Planning Department of the Western Electric Co., Chicago, Ill. He was formerly employed in the Production Department of the Olds Motor Works, Lansing, Mich.

W. A. THOMAS, 3D, has resigned his position as consulting and marine engineer with Macfarlane, Carmey & Co., New York, and is now with Chas. Cory & Son., Inc., of New York.

NELSON A. ZEIGER has resigned his position with the Eastman Kodak Co. of Rochester, to enter the Engineering Department of The Buckeye Steel Casting Company of Columbus, Ohio.

HENRIK GREGER, formerly consulting marine engineer with Adams, Lovell, Birmingham, Inc., of New York, is now associated with The Hooven, Owens, Rentschler Company, in Hamilton, Ohio.

RALPH MILLER is now with the Ingersoll-Rand Co., Phillipsburg, N. J., having resigned his position as assistant superintendent of the Gulowsen Grei Engineering Corporation of Seattle, Wash.

KENNETH B. MILLER has resigned his position as assistant general engineer with the American Thread Company to join the organization of the Griscom-Russell Company, of New York, in the capacity of development engineer.

BASIL W. DENNIS, until recently assistant superintendent of power with the Ford Motor Company of Detroit, is now with Stone and Webster Company of Boston, as engineer in its mechanical division.

STANLEY P. STEWART has severed his connection with the Bass Foundry and Machine Company of Fort Wayne, Ind., and is now with the Franklin Automobile Company of Syracuse, N. Y.

DEAN M. JOHNSON, formerly sales engineer with the Dodge Sales and Engineering Company of Mishawaka, Ind., is now associated with the United States Rubber Company of New York, as research engineer in the mechanical goods division of the company.

G. W. NIGH has resigned his position with the Burlington Railroad to become associated with the Kewanee Boiler Company of Kewanee, Ill.

JOHN G. SCHABERT has left the employ of A. H. Emery of Glenbrook, Conn., and is now with the Yale and Towne Manufacturing Company in Stamford, Conn.

THOMAS A. NOVOTNEY, formerly sales engineer, the American Radiator Company, Chicago, is now with the Power Efficiency Corporation of Buffalo, N. Y.

RALPH I. ALEXANDER has severed connections with the Rensselaer Polytechnic Institute, where he was an instructor, to become supervisor for the Strathmore Paper Company of Woronoco, Mass.

W. W. TAYLOR is now connected with the International Coal Products Corporation of New York City. He was formerly assistant chief engineer for the American Car Company.

CARL AICHBERGER has resigned his position as secretary and sales manager of The Sandusky Foundry & Machine Co., Sandusky, Ohio, and is now connected with the Fitzpatrick Products Corporation of New York City, in an executive capacity.

LLOYD E. LARSON is now serving as vice-president and consulting engineer for the J. H. Wilhelm, Inc., New York City. He was formerly superintendent of the Gauge and Tool Division, Frankford Arsenal.

OTIS L. MCINTYRE recently resigned as mechanical superintendent for the Cerro de Pasco Copper Corporation and has become associated with the Fuller Engineering Company and the Fuller Lehigh Company of Allentown, Pa.

TERRENCE J. MULVEY, after serving the McEwen Manufacturing Company, Tulsa, Okla., for the past year in the capacity of works manager, has resigned to become associated in business with his brother, D. F. Mulvey, of Montclair, N. J.

ROBERT B. ADAMS, formerly superintendent of the A. J. Savage Munitions Company, San Diego, Cal., is now factory superintendent of the Wilson & Willard Manufacturing Company, of Los Angeles, Cal.

ROBERT R. LASSITER, previously mechanical superintendent of the Richmond Forgings Corporation, Richmond, Va., is now connected with the Dale-Brewster Machinery Company, Inc., of New York, Chicago and Paris. Mr. Lassiter is assistant to the president, with headquarters in New York.

ALBERT H. ISRAEL, formerly Torpedo Testing and Research Engineer for the E. W. Bliss Company, has become Works Manager for the American Mustard Company of Brooklyn, N. Y.

W. FRANK SUTHERLAND, formerly editor of *Power House*, has severed his connection with the MacLean Publishing Company, Toronto, and has accepted a position on the engineering staff of the Deloro Smelting and Refining Company, Deloro, Ontario.

ANNOUNCEMENTS

J. HANSON MITCHELL has accepted a position as plant engineer with the Shuttleworth Brothers Company, manufacturers of wilton and body brussels carpets and rugs, in Amsterdam, N. Y.

HENRY DUSENBERY is secretary of the Ford Regulator Corporation which succeeds The Thomas P. Ford Company of New York. Mr. Dusenbery was sales engineer for the original company.

FRANK F. BOYD, Lt-Com., U.S.N.R.F., who served during the war as senior engineer officer of the *U. S. S. Jupiter* and later as engineer and repair officer at the U. S. Submarine Base at New London, Conn., is now assisting in handling the work of the marine division which the Westinghouse Electric and Manufacturing Company has recently established in its sales office in New York City.

LAWRENCE R. QUINN, formerly major in the Ordnance Department, has assumed the position of vice-president of the Pittsburgh Can Company, Pittsburgh, Pa., in which capacity he is operating as executive head of the company.

LEWIS F. LEVENTHAL, who as chief engineer, *U. S. S. Auk*, U. S. N., has until recently been in active service in sweeping the North Sea Mine Barrage, is now connected with the Hartford Plant of the U. S. Rubber Company.

HARRY MCCARTHY, products engineer for the Walworth Manufacturing Company, has been transferred from the Kewanee Works of that company to South Boston, Mass.

C. B. MANSFIELD, who previous to his service with the Gas Defense Division of the Chemical Warfare Service at Astoria, L. I., N. Y., was with The Palmetto Phosphate Company, Tiger Bay, Fla., is now in the Florida Department of the International Agricultural Corporation, located in Mulberry, Fla.

GEORGE FRIEDKIN has accepted a position as maintenance engineer with the Ingalls-Shepard Forging Company of Harvey, Ill.

HENRY M. NEWHALL, JR., is now president of the Newhall Chain Forge & Iron Co., New Jersey Foundry & Machine Co., and Diamond Expansion Bolt Co., with office in New York City.

RICHARD F. HEWITT, secretary-manager of The General Fire Extinguisher Company of Michigan, having completed active service as a captain in the Engineer Corps of the United States Army, has accepted a position as fire protection specialist with the Grinnell Company, Inc., of Detroit. He has also accepted a new commission as major in the Engineer Section, U. S. A., Reserve Corps.

A. D. ROBINSON, consulting engineer of St. Louis, Mo., has gone to China, where he expects to be for several years, in the interests of Jardine, Matheson & Co., Ltd., Shanghai, China.

THOMAS E. HYDE has resigned his position as works manager and assistant secretary of the Huhn Manufacturing Company of Arlington, N. J.

CHARLES H. HILLS, formerly sales manager with the Seattle branch of the Worthington Pump and Machinery Corporation, is now in the marine department of this company in the New York office.

WALTER H. ADAMS has received his discharge from the U. S. Army and will be engaged as consulting engineer in Pasadena, Cal. Mr. Adams was Captain, Engrs., U. S. A., stationed at Whipple Barracks, Ariz.

JOHN D. CRAWFORD has been transferred from the Akron to the Cleveland office of The Wellman-Seaver-Morgan Company.

ELIOT A. KEBLER, actively identified with iron manufacturing companies for many years and now vice-president of the Schaffer Engineering Company of Pittsburgh, is one of the officers of the Fawcus Machine Company which has recently joined its forces with those of the Schaffer organization for the production of gears and special machinery.

STERLING H. BUNNELL advises that the announcement inadvertently made in the June issue of MECHANICAL ENGINEERING that he had resigned his position of chief engineer of the export and shipping corporation of R. Martens & Company, Inc., is incorrect. Mr. Bunnell has not resigned this position which he has held since the early days of the organization of the business for export trade between America and Russia.

FRANCIS CHIAVERIN has severed his connection as designer with the Hercules Powder Company of Wilmington, Del.

ARTHUR F. BARNES, formerly dean of engineering and professor of mechanical engineering, New Mexico College of Agriculture & Mechanical Arts, State College, N. M., is now associated with Barglebaugh & Whitson, architects and consulting engineers of Dallas, El Paso and Houston, Tex., as mechanical and industrial engineer and manager of the New Mexico-Arizona district.

D. B. MORRIS has been transferred from the Carney's Point to the Repauno Plant of the E. I. du Pont de Nemours & Company, Gibbstown, N. J.

COLONEL EDGAR E. ARISON and L. G. KNAPP are members of the recently organized firm of Arison, Goodwin & Knapp, industrial engineers, Chicago. Colonel Arison has filled many important posts in the Ordnance Department during the past three years and Mr. Knapp was works manager of the Wisconsin Motor Manufacturing Company during the war, bringing that organization up to an unprecedented degree of production under emergency conditions. More recently he has been efficiency engineer with Harsh & Chapline Shoe Company of Milwaukee. Other organizations with which both Colonel Arison and Mr. Knapp have been connected are the Harrington Emerson Co., consulting engineers, and the Atchison, Topeka & Santa Fe Railroad.

CORNELIUS T. MYERS, consulting engineer, formerly with the Quartermaster General's Office in Washington designing the Class B military truck which was started in his Detroit office, is temporarily located in Rahway, N. J. Mr. Myers specializes in motor-truck construction, producing new designs in chassis and component parts, revising old designs, and acting as consulting engineer to purchasers and operators of motor trucks and investors in the motor truck industry.

EDWARD H. MAROT, who has recently become associated with the Steel Treating Equipment Company of Detroit, Mich., is serving this company in the capacity of sales manager, not sales engineer, as was stated in the June issue of MECHANICAL ENGINEERING.

APPOINTMENTS

GEORGE R. BRANDON, formerly engaged in engineering and sales of foundry equipment and cranes, has recently been appointed district representative and sales engineer by The General Combustion Company of Chicago.

W. F. MCCARTY has resigned as chief engineer of The Defiance Machine Works of Defiance, Ohio, and has been elected president and treasurer of The Progressive Engineering and Sales Company, Toledo, Ohio.

BRUCE M. SWOPE has been promoted from the position of assistant master mechanic, Renovo Division, Pennsylvania Railroad, to that of assistant engineer of motive power, Lake General Division, with headquarters at Cleveland, Ohio.

MAXWELL C. MAXWELL, assistant general superintendent of the Yale & Towne Manufacturing Company for several years, has been appointed general superintendent, in direct charge of production and maintenance of the plant.

ALFRED G. NORRIS, of New Haven, Conn., has been appointed district manager for the Western New England District, S K F Industries, Inc.

G. P. SIMPSON has been appointed vice-president and general manager of the Oven Equipment and Manufacturing Company of New Haven, Conn. Mr. Simpson, who has been connected with this company for the past six years, was formerly plant engineer of the Robinhood Ammunition Company of Vermont.

H. M. BRAYTON, who served throughout the war as captain in the Ordnance Department at Frankford Arsenal, Philadelphia, Pa., has been appointed Chief Ordnance Research Engineer at the same station and will have charge of the research department on artillery ammunition.

MAJOR JOSEPH W. HENEZEY, formerly general supervisor of artillery ammunition, U. S. A., has been appointed general superintendent of the Stanley G. Flagg & Company, Stowe, Pa.

NECROLOGY

JOHN JOSEPH CONVERY

John J. Convery, consulting engineer, New York City, died on April 17, 1920. Mr. Convery was born on February 23, 1871, in Worcester, Mass., and received his early education in the schools of that city. He followed the trade of machinist until the age of twenty-three when he secured employment with the Washburn & Moen Co., later the American Steel & Wire Co., Worcester. His ability at designing led to his transfer to the drawing room where he designed improvements on machines for the manufacture of all kinds of springs. Machines and appliances of his designing were greatly responsible for the concern's prestige.

Mr. Convery went to Pittsburgh to obtain experience in rolling-mill design and remained there for about five years. He then became connected with the Midvale Steel Co., Philadelphia. In 1910 he designed an improved automobile-tire machine for wrapping the fabric on the carcass automatically, an accomplishment thought impossible up to that time. He assigned his interests in these machines to the Goodyear Rubber Co., and supervised their construction. About 1912 he opened offices in New York City as consulting engineer.

Mr. Convery became a member of the Society in 1916.

GEORGE GILES

George Giles, general manager and director of the Vancouver Engineering Works, Ltd., Vancouver, B. C., died on April 4, 1920. Mr. Giles was born on July 8, 1869, in Walthamstow, London, England. When a mere boy he left England and went to Canada and there he secured employment with the Reid & Currie Co., and their successors, the Vulcan Iron Works, Westminster, B. C., as "improver" in the foundry and machine shops. He worked up to the position of assistant manager. In 1898 he became connected with Armstrong & Morrison, Ltd., Vancouver, as assistant to the superintendent. Two years later this firm was bought by the Vancouver Engineering Works and Mr. Giles became assistant to the manager with full charge of estimating, costs and production. In 1906 he was promoted to the position of works manager and in 1915 became general manager and director of the firm.

Mr. Giles belonged to several clubs and fraternal organizations. He was also the honorary president of the Metal Trades Employers' Association of British Columbia, and a member of the American Foundrymen's Association. He became a member of our Society in 1908.

CARL JEFFREY HEATH

Carl Jeffrey Heath, who became a junior member of the Society in 1919, died on April 4, 1920. Mr. Heath was born in Winsted, Conn., on April 2, 1895. He was educated at Stockbridge high school, Andover Academy and the Massachusetts Institute of Technology, receiving from the latter his B. S. degree in 1917. Upon graduation he became connected with the Boston office of R. Hoe & Co. as salesman. He resigned from this position in 1918 to enter the United States Army. Upon his discharge in 1919 he became associated with the General Electric Co., Pittsfield, Mass., in the motor-engineering department, where he was located at the time of his death.

HENRY A. PORTERFIELD

Henry A. Porterfield, owner and manager of the Dexter Oil Co., Pittsburgh, Pa., and known as an expert in the testing of oils, died on February 8, 1920. Mr. Porterfield was born in Emlenton, Pa., on May 1, 1863. He attended St. Paul's School in Concord, N. H., and then entered Lehigh University, from which he was graduated in 1883. For a short period he was engaged as a mining engineer in coal regions of Wilkes Barre, Pa. He then became connected with the Cambria Iron Co., Johnstown, Pa., as a tester of steels; he was with this company for ten years and was the first to introduce into their work the testing and mixing of oils. After the Johnstown flood, which so badly crippled many of the industries of that city, Mr. Porterfield entered the employ of the Carnegie Steel Co., Pittsburgh, Pa., where he organized laboratories in the various works of the company for the testing of oils. For many years prior to his death, he managed the Dexter Oil Works.

Mr. Porterfield became a member of the Society in 1890. He belonged also to several university clubs in Pittsburgh.

ALFRED RAYMOND

Alfred Raymond, general manager of the Sewerage and Water Boards, New Orleans, La., died on January 13, 1920. Mr. Raymond was born in New Orleans on May 13, 1865. He received his early education in that city and later attended Tulane University, receiving the B. S. degree in 1895 and the M. E. in 1897. Upon graduation he engaged for a short period in work for the U. S. Geodetic Survey. He then took a position as chemist with the American Sugar Refining Co. In 1889 he was appointed electrician in charge of the meter department of the Edison Electrical Illuminating Co. and the following year was made superintendent. From 1893 to 1895 he was superintendent of construction of the Southern Electrical Manufacturing Co.; from 1895 to 1896 he was superintendent of the Louisiana Electric Light Co., and for the next three years was city electrician of New Orleans.

In 1898 Mr. Raymond was appointed general manager of the operating department of the New Orleans Drainage Commission and when in 1904 this Commission was merged into the Sewerage and Water Board of New Orleans, he retained both the title and functions of general manager.

Mr. Raymond became a member of our Society in 1904. He also belonged to the American Society of Civil Engineers, the American Institute of Electrical Engineers and was an active member and past-president of the Louisiana Engineering Society. His activities were many and unselfish. He was an administrator of the Tulane Fund, associate-architect on the Ursuline Convent, member of the New Orleans Garbage Commission, and during the War chairman of the local draft board. By his death the engineering profession loses one of its most prominent and versatile members.

EMPLOYMENT BULLETIN

THE SECRETARY considers it a special obligation and pleasant duty to make the office of the Society the medium for assisting members to secure positions by putting them in touch with special opportunities for which their training and experience qualify them, and for helping any one desiring engineering services. The applications listed below combine the services of the Society and of the Engineering Societies Employment Bureau, Engineering Societies Building.

POSITIONS AVAILABLE

Stamps should be inclosed for transmittal of applications to advertisers; non-members must accompany applications with a letter of reference or introduction from a member; such reference letter will be filed with the Society's records.

TECHNICAL GRADUATES desired, preferably with some practical experience, for position with large manufacturer of high-speed machinery, either in calculating, drafting or engineering departments. Give full details in application. Z-229.

MECHANICAL ENGINEERING GRADUATES, Class of 1920, as student engineers in training course of large company. Excellent opportunity for experience in theoretical mechanical engineering. Location Mass. Z-611.

MECHANICAL ENGINEER for construction work in India, must be American, unmarried and 30 years of age. Must have 3 years experience in outside construction work. Z-737-A.

DIESEL ENGINE DESIGNERS, for stationary and marine. Location Southern California. Only first-class experienced men need apply. Give full particulars. Z-1135.

DESIGNER OF POWER PUMPING machinery experience. In reply state age, experience and compensation required. Address Employment Office. Deane Works, Holyoke, Mass. Z-1137.

CHIEF INSPECTOR to have complete control over all inspection. Must be finished mechanic and thoroughly understand inspection of high-grade cabinet work. Expected to improve quality and maintain harmonious relations with department heads. Location New York. Z-1198.

MECHANICAL DRAFTSMAN to design machinery for plant manufacturing drying, grinding and crushing machinery. Knowledge of plant construction as applied to cement mill or allied industries useful although not essential. Position permanent. Age, experience and minimum salary. Location Eastern Pennsylvania. Z-1199.

GRADUATE MECHANICAL ENGINEERS with automobile experience to work on designing in connection with motor trucks. State in detail experience, salary, etc. Location New York City. Z-1210.

GRADUATE MECHANICAL AND ELECTRICAL ENGINEER experienced in car shop work. Competent to keep in first class condition of maintenance sub-surface-contact, electric, street-railway cars, and to develop repair shop for work, selecting and placing proper tools and take charge of such operations when erected. Location New York City, Z-1211.

INSTRUCTOR for technical school in electrical laboratory and class-room work. Duties will include responsibility for an elementary electrical course, and assistance in more advanced course. Must be engineering school graduate with few years' practical experience. Previous teaching experience desirable. Apply by letter stating age, education and experience and enclose recent photograph if available. Location, Brooklyn, N. Y. Z-1214.

TECHNICALLY EDUCATED man around 30 to 35 years with experience in plate and steel

fabrication for office position along sales lines with large iron and steel concern; doing countrywide business. Opportunity to connect with high-grade house, excellent possibilities along commercial lines. Location Chicago. Z-1279.

YOUNG MAN, competent to design and take charge of erection of reinforced-concrete construction to go to South Africa on particular job, good for at least two years. Z-1295.

ENGINEERING GRADUATE experienced in time study and rate setting with considerable experience in timing and working up rates for hand operations. Location N. Y. State. Z-1296.

INSTRUCTOR to teach highway engineering, theoretical hydraulics, hydraulic laboratory and surveying; at least one year practical experience in practice and teaching. Location Brooklyn, N. Y. Z1298.

ENGINEER to teach machine design. Should have at least 4 years' experience. Man under 30 desired. Teaching experience desirable but not essential. Will be in charge of evening classes. Location Brooklyn, N. Y. Z-1299.

ASSISTANT PRODUCTION ENGINEER for machine shop; company manufacturing hoisting, machinery, both in quantity and unit production. Location Brooklyn, N. Y. Z-1305.

DESIGNING ENGINEER for general municipal engineering work. Location Santo Domingo City, D. R. Z-1307.

RESIDENT ENGINEER capable of taking charge of highway construction or harbor improvement for handling work in connection with engineering aid to cities or Provinces. Location Santo Domingo, D. R. Z-1309.

GENERAL BUILDING SUPERINTENDENTS. Must speak Spanish. (3) Location Santo Domingo City, D. R. Z1311.

GRADUATE METALLURGIST for control in research work on steel and its heat treatments. College education and training in microscopic analysis of high-carbon steel, also intimate knowledge of pyrometers essential. State training, experience and salary desired. Location Philadelphia, Pa. Z-1317.

FOUNDRY SUPERINTENDENT to erect machinery and take charge after completed. Company will make small brass castings. Interest in business if have satisfactory qualifications. Location Paterson, New Jersey. Z1322.

SALES ENGINEER familiar with up-to-date welding processes. Location New York. Z1326.

RESIDENT ENGINEER for public utilities. Must be experienced engineer. Location Pennsylvania, New York and Florida. Three men wanted. Z-1327.

DETAILERS AND CHECKERS for large structural-steel fabricators. Location Ohio. Z-1328.

SHOP SUPERINTENDENT to organize and take charge of small machine shop for manufacture of patented apparatus. Must be familiar with up-to-date machine-shop methods. Knowledge of presswork and electric welding desirable, but not essential. Location near New York City. Z-1329.

CHIEF DRAFTSMAN to take charge of 12 men. Prefer man with engineering knowledge to take over details from engineer. Work to cover design of tools and gauges for small intricate parts. Location Western New York. State salary desired and when available. Z-1340.

INSTRUCTOR for physics department to teach electricity, mechanics and heat. Location Brooklyn, N. Y. Z-1341.

LABORATORY ASSISTANT for physics laboratory including subjects. Location Brooklyn, New York. Z-1342.

INSTRUCTOR IN ENGINEERING drawing and descriptive geometry in middle-western college. Applicant should have B.A. and one or more years experience in shops or drafting room. Location Kansas. Z-1357.

SUPERINTENDENT OF MOTOR EQUIPMENT; high-grade man experienced in maintaining large fleet of trucks. Must be all-around mechanic. Excellent opportunity for advancement. State age, experience, whether married or single and salary expected. Location Chicago. Z-1358.

PHYSICIST. Large manufacturer of optical instruments has opening for physicist preferably with mechanical experience. Location New York State. Z-1364.

MECHANICAL ENGINEER, technical graduate, between 28-35 in advisory capacity for company manufacturing food products. Research work mostly; should be familiar with special machinery especially along lines of food products manufacturing. Salary depending on experience. Location Brooklyn, N. Y. Z-1376.

ASSISTANT WORKS ENGINEER, preferably technical graduate, experienced in construction field. Mechanical engineer with civil-engineering experience or civil engineer with design and installation of chemical plants. Location Virginia. Z-1387.

LAYOUT DRAFTSMEN familiar with layout of complete motor cars, excluding bodies. One familiar with layout of motors; and one man familiar with the layout of chassis parts including front and rear axles, transmission, brake mechanism and clutches. Location Connecticut. Z-1388.

GRADUATE MECHANICAL ENGINEER, with electrical and shop experience for large textile mill. Position will be that of mechanical superintendent and will embrace direct supervision of machine, carpenter, pipe, blacksmith, tinsmith shops, etc. The work will require man with executive qualifications and large amount of tact. State training, age, references, salary and other details necessary for reaching quick decision. Location Rhode Island. Z-1389.

TIME-STUDY MAN, practical and experienced for large up-to-date concern near New York, must be thoroughly familiar with all standard machine tools, be competent to supervise the studying of operations on small interchangeable parts and be able to set piece and bonus tasks on same. For consideration replies must state age, married or single, salary and fully desirable experience in this line. Location near New York. Z-1408.

HEAD PROFESSOR OF MECHANICAL ENGINEERING in southern University. Z-1409.

DESIGNERS AND DRAFTSMEN familiar with diesel engines either of the standard or solid injection types. Location New England. Z-1414.

SUPERINTENDENT on reclamation work in Trinidad. Must be good organizer, capable of taking full charge; be familiar with dipper-dredge work and able to keep equipment running economically. Spanish not necessary. Write full particulars, age and salary desired. Location Trinidad. Z-1419.

PRODUCTION ENGINEER, capable of taking full charge of production department in large manufacturing plant in New York City. Must be able to direct planning, scheduling, follow-up, and handle controls from stores to finished products. Must have occupied similar position as superintendent or supervisor of production at least 3 to 5 years. Exceptional opportunity for right man. State age and salary expected. Fullest particulars in production experience required in reply to have your application considered. Location Long Island City. Z-1421.

MACHINE-TOOL DESIGNER on automatic machinery. Prefer young man under 35, with good initial experience and who can work under direction of chief engineer. Man with practical as well as technical experience desired, and one who can work under guidance, has an analytical mind and original ideas, as the guidance will be general in character. Good opportunity. Location Bridgeport, Conn. Z-1425.

OPERATING ENGINEER for power plant to be assistant to chief operating engineer and to be occupied principally with maintenance. Should be good machinist with some familiarity with operation and care of steam turbines; technical engineering training is not required; some knowledge of Spanish is very desirable but not essential. The plant furnishes power for operation of electric railways and electric light and power in city of Havana and now contains three 12,500 k.w. Westinghouse turbine generator units and two 25,000 k.w. units of same make have been contracted for. Location Havana. Z-1426.

SALES ENGINEERS, young, for leading manufacturer of power-plant specialties to call on power-plant and consulting engineers. High character, dependability, enthusiasm and will to succeed. Broad general education and some knowledge of power plants gained through operating or sales experience. Previous selling experience not essential but an advantage. Prefer man with knowledge of Central and Western New York territory. Initial application by letter only which should state salary expected. Headquarters New York City at start, later if successful, permanent location in Syracuse, New York. Z-1427.

MECHANICAL ENGINEER with aeronautical training. Must be familiar with all designs of aeroplanes and field practice. Must be able to meet executives and government officials. Location Washington and travel. Z-1428.

ASSISTANT PROFESSOR OF MECHANICAL ENGINEERING, technical graduate to assist in laboratory courses take charge of courses in high speed internal-combustion engines and automotive design, which is part of optional course in automotive engineering for seniors in mechanical engineering. Location Michigan. Z-1434.

REFINERY ENGINEER with technical education and good mechanical engineering and oil-refinery experience, who will be able to supervise getting out drawings and in general take care of engineering detail. Salary will depend on man but will not be high at first; organization is growing rapidly and opportunities should be large once man proves ability. Location Mexico. Z-1436.

PLANT ENGINEER, preferably technical graduate with 4 to 6 years' experience; to handle maintenance and millwright work, installation for purchase of tools and machines for large brass foundry and machine shop, with usual auxiliary departments. Engineer will be required to do much of own drafting on layouts in design of special equipment. Man of analytical mind especially on improvement of processes, and with general knowledge of plant-engineering work in brass foundry and machine shop, very little power-plant engineering involved. Ohio. Z-1437.

INSTRUCTOR IN MATHEMATICAL DEPARTMENT, young man. Principal work will be to give elementary course in calculus to engineering students. N. Y. State. Z-1439.

ENGINEER for well-established export concern in China; familiar with steam power-plant electrical, mechanical installations also experienced selling machine tools mechanical, electrical and railway equipment. Opportunity given responsible engineer to enjoy interest in firm. Sail for China from Seattle, July 7th. Give full details experience, photograph, recommendation in first letter. Z-1441.

COST ACCOUNTANT, about 30 years of age, earning capacity $5,000 per annum to join force of consulting engineers devoting their attention to industrial management, public utilities, shipping and allied interest. Initiative, aggressive and tactful. One present employed preferred. Z-1444.

MECHANICAL ENGINEER, familiar with all lines, to handle farming machinery, tractors, rice threshers, saw-mill machinery, marine and stationary internal-combustion engines, sugar machinery and mill supplies. Location Philippine Islands. Z-1454.

PRODUCTION ENGINEER, technical graduate, electrical or mechanical, between 30 and 40 years of age, thoroughly competent to plan, tool-up, organize and maintain efficient production on large scale of fractional motor, in small-motor department of large corporation in New England; man of strong character and personality backed by achievement. Z-1450.

RECENT GRADUATE, in mechanical engineer, two, from college of recognized standing, or men who have done engineering work equivalent thereto, are required by large industry vicinity New York, to carry on research and investigations connected with manufacturing processes, steam production and electric generation. Salary commensurate with abilities. Opportunities unlimited. Z-987.

INSTRUCTOR in steam and gas laboratory, duties to commence September 23. Must be graduate of well-known technical school, experience in teaching laboratory work. Men without teaching experience will be considered if other qualifications are satisfactory. Location, state university, in middle west. R-2212.

TECHNICAL GRADUATE desired for important position with manufacturer of high-speed machinery. Must be mechanical engineer with 5 years' practical experience or 5 years' teaching experience at technical school. State fully

qualifications and experience. Location, Mass. Z-1455.

SMALL MANUFACTURING BUSINESS capable of indefinite expansion, offers unexcelled opportunity to young man of some mechanical ability with special aptitude in organization and managing help; not less than four years' successful experience. To right man, chance is offered to quickly work into entire management and interest in business as owner desires to retire from active detail work. Z-1458.

DIESEL ENGINEER. Man of adequate experience to be chief engineer of electric-light plant in West Indies, containing two Diesel engines and one semi-Diesel engine. Location West Indies. Z-1469.

MEN AVAILABLE

Only members of the Society are listed in the publishehd notices of this section. Copy for notices should be on hand by the 10th of the month preceding date of issue and should be limited to 45 words. The form of notice should be such that the initial words indicate the classification. Notices are not repeated in consecutive issues.

ENGINEER AND EXECUTIVE, two years' practical education in administration and management, two years' experience construction engineering. Five years' in executive positions large industrial companies purchasing large quantities machinery, planning, management production and operation plant; is seeking major executive position commensurate to his experience. SM-5332.

EXECUTIVE position desired by graduate mechanical engineer, such as sales manager or factory manager. Experienced in manufacturing and building of equipment as well as the marketing of same. Eastern location preferred. SM-5333.

EXPORT EXECUTIVE, mechanical and electrical engineer, technical graduate, age 37, married, having considerable practical experience exporting to all parts of the world, desires connection with manufacturer wishing to develop an export business; knowledge of Spanish and German; good organizer and producer of results. SM-5334.

MECHANICAL ENGINEER, technical graduate, age 25, married, desires position as assistant engineer on industrial work. Four years' experience estimating and design of plant installation, ordnance, etc. Present salary $2,700. New York or vicinity. SM-5335.

MECHANICAL ENGINEER, Columbia, desires opportunity to be assistant to executive or plant manager, or in office of consulting industrial engineer. Five years' experience on construction, power-plant operation and in all departments of large electric power company. Training includes business course. SM-5336.

EXECUTIVE ENGINEER, age 39, technical graduate; open for engagement with progressive organization. Exceptional experience in manufacture of mechanical rubber goods and rubber-insulated wires and cables. Experienced in factory layouts and standardization methods. Has successfully handled labor and organization problems; installed effective methods for increasing production. Eastern Location preferred. SM-5337.

ELECTRICAL AND HYDRAULIC ENGINEER, twenty years' experience as executive in design, construction, maintenance and operation of large hydro-electric plant of 200,000 hp. capacity. Experience includes heavy overhead and underground transmission and distribution systems, power measurement, and preparing power contracts. Is ready to undertake general supervision of electrical development work of any size or act as technical adviser to investment syndicate. Reason for seeking new connection: merger. SM-5338.

MECHANICAL and METALLURGICAL ENGINEER, age 26, married, Cornell graduate, four years' experience. Familiar with all classes of machine work, thorough knowledge of metallurgy. Desires position as metallurgist or assistant to executive in progressive manufacturing concern. Employed at present in directing metallurgical research. New York or middle west preferred. SM-5339.

GRADUATE of W. P. I., M. E. Asso. A. S. M. E. Age 36, married, has had thirteen years' experience in Canada, last five years as advertising manager of large machinery supply house. Desires position anywhere in northern part of U. S. Salary $5000. SM-5340.

MECHANICAL ENGINEER desires position as manager of power generation for syndicates having number of plants. Age 37; 18 years' experience in power-station design, construction and operation. Expert on turbines and condensers and all other power-plant apparatus. SM-5341.

TECHNICAL GRADUATE, 8 years' experience on design, construction and inspection, both mechanical and structural, of industrial plants and power houses. At present employed on pulp mill in Canada. Desires responsible position with concern where initiative can be exercised. Any location. SM-5342.

PURCHASING ENGINEER AND EXECUTIVE, long experience, several years' drafting and as sales engineer; eight years purchasing railway-shop equipment, machine tools and raw materials, including steel products and nonferrous metals; also export experience. Married, age 34, now employed. SM-5343.

WORKS MANAGER OR SUPERINTENDENT, 16 years' executive experience in shop work, designing, inspection production and in machinery installations. Graduate mechanical engineer. Age 37. $5000 minimum. SM-5344.

INSTRUCTOR, mechanical engineer, with varied practical and teaching experience, open for engagement next fall. Prefer opening where energy, personality and initiative are essential considerations. Minimum salary $3000. SM-5345.

MECHANICAL ENGINEER, experienced industrial engineering, office and works; engineering purchases, valuations, surveys. War record as plant and production engineer. Negotiations personally conducted. Supervisor of large contracts, work and forces; reports, estimates. SM-5346.

DRAFTSMAN AND ENGINEER, graduate civil engineering with one year drafting marine and building construction. Three years' construction experience railroad concrete and steel building. Five years' manufacturing experience. Immediately available. SM-5347.

MECHANICAL AND CONSTRUCTION ENGINEER, 8 years' experience in design and supervision of factory and power-plant buildings and equipment. Familiar building design, specifications, and construction, mechanical handling systems, power-plant equipment; heating and ventilating installations; piping, and general layouts. Can take entire charge of design, construction, and maintenance. Age 33. Cornell graduate. SM-5348.

GAS BURNING FURNACES, high-temperature carbonizing ovens. Graduate mechanical engineer with good thermodynamic training and experience on development, constructing, operation and maintenance of such equipment. Salary $300 per month. SM-5349.

MECHANICAL ENGINEER, technical graduate, 28, married. Five years' experience plant construction and layouts, machine and structural design, machine-shop practice and general engineering. Available in 15 days. Preferred location Rhode Island or vicinity. SM-5350.

MECHANICAL ENGINEER and executive; 34; technical education, practical shop experience. Six years as executive along mechanical lines in office, engineering and shop management. Thoroughly familiar with modern methods. Desire connection in East. Minimum salary $4,000. SM-5351.

SALES-ENGINEER, now located in Pittsburgh with large acquaintance in this city and principal cities in Western Pennsylvania and West Virginia. Prefer to sell machine tools, but will consider other lines. SM-5352.

MECHANICAL ENGINEER, technical graduate, 1915, married. At present employed as chief draftsmen in large corporation. Open for permanent position as plant engineer or work of similar character. Capable of handling new design as well as maintenance work of varied nature. Location Philadelphia or vicinity desired. SM-5353.

MECHANICAL ENGINEER, technical graduate. Age 29, married. Seven years of excellent experience on construction, industrial and combustion engineering; also design, development and maintenance of power and industrial plants. Desires permanent connection in executive enginering capacity. SM-5354.

MECHANICAL ENGINEER, 7 years' experience general research work, demonstrated executive ability and energetic producer. Connection with growing concern as research engineer or with progresive firm of consulting engineers. Age 26. SM-5355.

PRODUCTION MANAGER, or assistant to general superintendent, graduate mechanical engineer. One year foundry, seven years' experience as mechanic, timesetter, production engineer and general superintendent. Machine-tool or automatic concern preferred. Location immaterial, age 28, married, minimum to start $350. SM-5356.

FACTORY MAN, 25, five years' varied shop experience including drafting, production and executive work. Technically trained. Any location. SM-5357.

APPRAISAL ENGINEER, 39 married, public utilities, industrial and power operations; experience in layout, installation and operation qualifies for all phases of work. At present engaged but desires advancement with more responsibilities. SM-5358.

MECHANICAL AND ELECTRICAL ENGINEER, 15 years' experience in design, erection and operation of power plants, steam and electrically-driven manufacturing machinery. Qualified as executive to handle many men in all departments, good experience in combustion of bituminous and anthracite coal. Operation and maintenance of extensive heavy equipment are specialties. Salary $7500 per year. SM-5359.

GENERAL SUPERINTENDENT OR PRODUCTION MANAGER; technical graduate, married. Experienced in automobile manufacture and general machinery. Well versed on use of jigs, fixtures, labor-saving devices planning and routing methods. Also experienced in inspection and assembling operations. Now employed as production manager. Location immaterial. SM-5360.

EXECUTIVE ENGINEER or works manager, American, 34, married, technical graduate. Broad experience railroad and industrial shop design, construction, equipment, operation and management. Thoroughly familiar with shop costs, contracts, purchases and stores. Specialized in production, and design and installation of automatic labor-saving devices and machinery. SM-5361.

FACTORY MANAGER, or superintendent; American, age 36, 10 years' experience in manufacture of light and heavy-metal stampings; modern production methods; installation piecework and bonus system of wage payment, successful handling of labor. Salary $6,000 per annum. SM-5362.

STEAM-TURBINE SPECIALIST, 16 years' domestic and foreign experience in development, design, manufacture testing and erection of all types of steam turbines. SM-5363.

INDUSTRIAL ENGINEER, graduate Stevens Institute; 34; specialized on production work for 10 years; early training under nationally known engineer. Varied experience in analysis and improvement of process and investigations of cost of production and improvement of same. Expert in time study in manufacture of typewriters, sewing machines, cream separators, coaster brakes, and metal novelties. At present assistant superintendent of plant that he reorganized over a period of six years. Shop and design. Has handled considerable automatic machinery, especially wire work. Would consider meeting man of similar experience for joint consulting work on production. Salary $5000. Location New York City or vicinity. SM-5364.

MECHANICAL ENGINEER, age 28, married; 7 years' experience design, erection and operation of power-plant and oil refinery, maintenance and construction; salary $3000 first year provided good prospects. Location, middle west. SM-5365.

MECHANICAL ENGINEER, several years' experience in machine design, desires connection with live concern in sales or engineering department. Employed at present, good personality, 26, married. Location, New England, preferably Connecticut. SM-5366.

PROCESS AND EQUIPMENT ENGINEER, with 15 years' experience in production, mechanical and executive positions. Age 34, married. has held positions as tool-room foreman, chief draftsman, factory superintendent, process

engineer and equipment engineer. Eastern location preferred. Salary minimum $4000. SM-5367.

TECHNICAL GRADUATE, in mechanical engineering, 27, single; two years' heavy-machine designing, development and research work, two years' machine-shop practice, desires responsible position with progressive concern. SM-5368.

GRADUATE MECHANICAL ENGINEER, age 25; four years' experience, shop, drafting, production, and commercial work; last two years in executive capacity with industrial furnace concern, doing designing, construction, correspondence, and sales over large territory. SM-5369.

SALES ENGINEER, 30 technical graduate; 5 years' general shop and erecting experience, past 3 years as New York representative of leading electric crane manufacturer. Desires location middle west as assistant to executive of progressive growing company. SM-5370.

MECHANICAL ENGINEER, or master mechanic; 18 years' paper-mill experience. Thorough theoretical and practical knowledge of steam and water power, mechanical drives. Wood, steel and concrete construction. General plant layout and maintenance. Now employed. Salary about $3600. SM-5371.

MECHANICAL ENGINEER, technical degree, 10 years' experience design and development of intricate automatic machines, and specialized types for efficient manufacture. Now chief designer of large corporation. Desire position as executive in charge of design and development work. Vicinity N. Y. City. SM-5372.

PROFESSOR OF MECHANICAL ENGINEERING; 12 years' experience in practically all branches of mechanical engineering. Age 35, married, good record present position. Willing to accept position as associate or assistant in M. E. department of high-grade instruction. SM-5373.

MECHANICAL ENGINEER; 4½ years' assistant building and construction superintendent 3 years' mechanical and building draftsman for large western railroad. Thoroughly versed in reinforced-concrete design and field construction. Structural-steel details and layout. Heating and ventilating power-plant layouts. Steam and oil-engine plants, coaling stations and mill construction. SM-5374.

CONSTRUCTING ENGINEER; available August 1, at present in charge of $6,000,000 power and mining development; 15 years' experience on hydraulic developments, power stations, mining developments, industrial developments, shafts and tunnels in America and foreign countries. Technical graduate, 36. Salary $7,000. SM-5375.

ENGINEERING SALES EXECUTIVE, technical graduate, experienced in engineering and manufacturing. Demonstrated ability in marketing high-grade and alloy-steel castings, alloy and tool steels, steel specialties, etc., over period of years. Familiar heat treatment of same. Executive and administrative ability. Constructive sales promotion. Presence and address. Substantial representation in every respect. $6,000 one year contract. SM-5376.

STUDENT, for summer position in drafting room of shipbuilding concern. SM-5377.

MECHANICAL AND PLANT ENGINEER, American, age 43, married; 18 years' theoretical and practical experience in general plant maintenance and construction, design of power houses and buildings, factory layouts and general equipment work executive. A1 references. Vicinity of Newark preferred. Salary depends on position. SM-5379.

ENGINEER, capable of solving difficult mechanical problems for manufacturing concerns. Labor-saving machinery specialty. SM-5380.

MARINE ENGINEER, technical graduate, holds license as chief engineer and has operated as such, desires to make change from present position as superintendent; qualified and has experience in operation, construction or design of modern steam machinery or Diesel engines. Location vicinity New York. SM-5381.

MECHANICAL ENGINEER, M. I. T. graduate, now employed; 5 years' experience in general plant engineering, maintenance and construction. Experimental and development testing of electric motors and works-management investigation. Desire position involving production and management work with industrial concern. SM-5382.

SALES ENGINEER, or sales manager, graduate mechanical engineer; 13 years' active experience, manufacturing executive and sales engineer; 5 years in last position, no objection to traveling. Have initiative and ability to get results. Location immaterial. SM-5383.

EXECUTIVE INDUSTRIAL MECHANICAL ENGINEER, American; married; technical education, several years in Brazil in charge of large American manufacturing interests and speaking Portuguese fluently. Engaged in pulp and paper-mill work for over 10 years. Successful in handling men. Extensive experience in industrial engineering, cost systems and cost analysis, standardization, purchasing and general management. Was also in American Consular Service. SM-5384.

MECHANICAL ENGINEER, age 34, married; technical graduate with advance degree, member of A.S.M.E.; 13 years' engineering and teaching experience, desires to connect with progressive firm in capacity of designing, constructing, sales, or advertising engineer. Energetic, versatile, and resourceful, with pleasant personality. Location preferred, Middle West. SM-5385.

FOREIGN TRADE, MECHANICAL ENGINEER, 15 years' general engineering experience in U. S. Born and educated in Europe; influential business and social connections abroad and the Orient; conversant in modern languages, married, good personality, excellent references, seeks position with progressive concern. Now available. SM-5386.

MECHANICAL DRAFTSMAN, now employed on important work in U. S. Government research laboratory, desires assignment as draftsman in tropical America. Capable, industrious and progressive. Age 21, unmarried. Will go anywhere, in any capacity that holds prospects. SM-5387.

ENGINEER, 34, technical education, 14 years' practical experience, general plant engineering; design, construction equipment, operation and maintenance of power plants, textile mills, print works and bleacheries, dairy plants, creameries, condensed-milk plants, mechanical refrigeration, pump and filtration plants, industrial housing, welfare, etc.; general power plant tests; specifications for buildings and machinery, purchase of materials and equipment. Married. Location immaterial. SM-5388.

CHIEF DRAFTSMAN, or assistant chief engineer, technical graduate in mechanical and civil engineering. Age 31, married. Eight years' experience as detailer, layout, charter, chief draftsman and mechanical engineer. Power plants and units, electric locomotives, electric traveling cranes, airplane equipment and instruments of precision. SM-5389.

WORKS MANAGER, or general superintendent; 21 years' technical and practical experience, includes six years' electric lighting, tramways and installations, 6 years' machine-shop and railroad drafting and design, six years' sales purchasing and general superintendence in jobbing plant comprising, foundry, machine and boiler shops. Age 37, married. SM-5390.

ASSISTANT TO WORKS MANAGER, or chief draftsman; capable, energetic young man; seven years' practical experience, last three years chief draftsman, in charge of design, tools, jigs, fixtures, gages, automatic machines and various labor saving devices. Has had experience in factory arrangements and manufacturing problems. Possesses inventive ability. Desires change where initiative is required and advancement possible. Location New York or immediate vicinity. SM-5391.

SALES ENGINEER, or representative, associate member, graduate engineer; seven years' broad experience as manufacturing executive, representative, and sales engineer in the crane and foundry equipment lines. Desires to represent company in similar lines in Chicago territory. SM-5392.

INDUSTRIAL ENGINEER, 28 years old, wants position in Philadelphia. Technical graduate with four years' experience as production engineer and manager of materials in machine shops. SM-5293.

WORKS MANGER OR SUPERINTENDENT. Age 35. College training. Experience locomotives, cars, boilers, contractors, equipment, foundry, general manufacturing, contract work. At present employed but seeking an opening in a larger field. SM-5394.

CANDIDATES FOR MEMBERSHIP

TO BE VOTED ON AFTER JULY 17, 1920

BELOW is a list of candidates who have filed applications since the date of the last issue of MECHANICAL ENGINEERING. These are arranged geographically. Applications for change of grading are also posted. The total number of applications received and listed below is 225.

The Membership Committee, and in turn the Council, urge the members to scrutinize this list with care and advise the Secretary promptly of any objections to the candidates posted. All correspondence in this regard is strictly confidential. Unless objection is made to any of the candidates by July 17, 1920, and provided satisfactory replies have been received from the required number of references, they will be balloted upon by the Council.

Alabama

ARGO, MALCOLM M., Power Engineer, Sloss-Sheffield Steel & Iron Co., Birmingham
BONDS, ALBERT, Electrician, American Steel & Wire Co., Fairfield
GALLALEE, JOHN M., Professor Mechanical Engineering, University of Alabama, University
GORDON, JOHN F., Plant Engineer, U. S. Nitrate Plant No. 2, Muscle Shoals
NEESON, MICHAEL F., Draftsman, Alabama Power Co., Birmingham
SMITH, ARCHIE, Assistant Superintendent of Shops, Woodward Iron Co., Woodward
STAUVERMAN, EDWARD, Birmingham Sales Manager, Worthington Pump & Machinery Corp., Birmingham
WINTER, IREAL A., Draftsman, Alabama Power Co., Birmingham

Arkansas

MURPHY, MELVIN J., Chief Engineer, Arkansas Light & Power Co., Little Rock

California

BAGBY, WILLIAM L., Assistant Superintendent of Pipe Lines, Shell Company of California, San Francisco
CONANT, DAVID J., Engineer, Western Well Works, Inc., San Jose
JOHNSON, CLARENCE F., Assistant to Chief Engineer, California & Hawaiian Sugar Refining Co., Crockett
LAROS, GERALD, Stanford University, Stanford University

Colorado

VICKLUND, CLAUD A., Draftsman, Sterns Rogers Manufacturing Co., Denver
VICKLUND, ENOCH R., Designer, Sterns Rogers Manufacturing Co., Denver

Connecticut

FITCH, HAROLD W., Assistant Engineer, New York, New Haven & Hudson River R. R., New Haven

HOBART, LOUIS C., Mechanical Engineer, The Baird Machine Co., Bridgeport
PREBLE, ELLICOTT M., Designsr, Fafnir Ball Bearing Co., New Britain
SHEA, JOHN J., Standardization Engineer, Russell & Erwin Co., New Britain
STONE, MITCHELL L., Industrial Engineer, Pratt & Cady Co., Inc. Hartford.

Delaware

HEALD, WILLARD R., E. I. duPont Co., Wilmington
ROBINSON, JOHN A., Assistant Plant Engineer, The Krebs Pigment & Chemical Co., Newport
ROSENFELT, MAX J., Sanitary Engineer, E. I. duPont de Nemours Co., Wilmington.

District of Columbia

HAVEN, CLYDE E., Assistant Physicist, Bureau of Standards, Washington

Georgia

LOEB, ALBERT L., Sales Engineer, Atlanta Utility Works, East Point

Illinois

DRINKWATER, EDGAR L., Architectural Heating & Ventilating Engineer, City of Chicago, Chicago
JEHU, WALTER I., General Superintendent, The Isko Co., Chicago.
McDONALD, WILLIAM, Assistant Supervisor, Engineers' Department, Swift & Co., Chicago
MINARD, DAVID P., Divisional Efficiency Engineer, Central Illinois Public Service Co., Mattoon
MORROW, SAMUEL L., Sales Engineer, Link Belt Co., Chicago
SCHWEISTHAL, FRED G., Assistant Engineer, Stewart Warner Speedometer Corp., Chicago
TATE, JAMES, Editor, Popular Mechanics Co., Chicago
TOPPAN, W. R., Manager, Railroad Department, Graver Corp., Chicago
WARD, WILLIAM H., Mechanical Engineer, Jas. N. Hatch, Chicago
WILSON, JOHN E., Traveling Engineer, Swift & Co., Chicago

Indiana

CHILDERS, FOUST, Assistant Supervisor of Assembly, General Motors Corp., Anderson
McWORKMAN, DELAMAR, General Manager, Diamond Chain & Manufacturing Co., Indianapolis
PAUL, WALTER E., Assistant General Foreman, Nordyke & Marmon Co., Indianapolis

Iowa

JOY, WARREN W., Sales Engineer, The Fisher Governor Co., Marshalltown
WERTZ, AUSTIN L., General Manager, Morrison Bros., Dubuque

Maryland

PILLSBURY, HORACE W., Lieutenant Commander U. S. Navy, Annapolis

Massachusetts

BLAKE, ARTHUR H., Wollaston
BONNAFE, OLIVER W., Mechanical Engineer, Lapointe Machine Tool Co., Hudson
BROWN, CARL D., Assistant Chief Draftsman, Draper Corp., Hopedale
CAMPBELL, VERNON A., Export Manager, Reed Prentice Co., Worcester
CHAPMAN, WILLIAM H., Grinding Engineer, Norton Co., Worcester
DOWS, HAROLD W., Instructor, Worcester Polytechnic Institute, Worcester
ENGELHARD, FREDERICK H., Member of Firm, Frank Engelhard & Sons, Springfield
EVELETH, CHARLES F., Mechanical Engineer, French & Hubbard, Boston
KINGSTON, ROBERT S., Sales Engineer, Niles Bement Pond Co., Boston
McINTYRE, JAMES, Designing Draftsman, Anglo-American Textile Co., Abington
MAHONY, RALPH G., Assistant Instructor, Massachusetts Institute of Technology, Cambridge
MICHELSEN, DONALD S., General Manager, Worcester Pressed Steel Co., Worcester
MOULTON, ROBERT S., Assistant Secretary, National Fire Protection Association, Boston
OSBORNE, MAURICE M., Engineer, Monks & Johnson, Boston
ROSS, JOHN A., Treasurer, The Frank E. Ross Co., Boston
SHEPARD, HENRY B., Sales Engineer, Lewis Shepard Co., Boston
SMITH, ALBERT T., Chief Draftsman, Parks-Cramer Co., Boston
SOUTHWICK, WILLIAM S., Engineer, Clinton Division, Wickwire Spencer Steel Corp., Clinton
WILLIAMS, HAROLD A., Supervisor of Maintenance, Hood Rubber Co., Watertown

Michigan

ABBOTT, PAUL W., Chief Inspector, Lincoln Motor Co., Detroit
JOHNSON, ALVIN B., Business Manager, The Detroit Commercial Eng. Co., Detroit
LINDFORD, STEN O. V., Chief Draftsman, Edmunds & Jones Corp., Detroit
LYNES, H. E., Detroit
MILWARD, HARRY L., Supervisor of Field Construction, Ford Motor Co., Detroit
TEEL, HENRY C., Factory Manager, Reo Motor Car Co., Lansing

Mississippi

REID, WILLIAM M., Canton Light & Water Works, Canton

Missouri

CALHOUN, LESLIE D., Draftsman, Busch Sulzer Bros., Diesel Engine Co., St. Louis
DRAKE, OSCAR McN., Salesman, Fairbanks Morse & Co., St. Louis
ECKSTEIN, GEORGE F., President, E. M. & W. Engineering Co., St. Louis
HICKEY, ROBERT B., Mechanical Engineer, Century Electric Co., St. Louis
LAMBERT, CARL F., Member of Firm, Burns & McDonnell, Kansas City
MORISON, RODERICK JOHN G., Secretary E. M. & W. Engineering Co., St. Louis
PHILLIPS, DANIEL W., General Shop Superintendent, Heine Safety Boiler Co., St. Louis
REICHARD, HARRY G., Student, Washington University, St. Louis
THUNEN, GEORGE W., Power Engineer, St. Louis Smelting & Refining Works of National Lead Co., St. Francis
YOUTSEY, FLOYD S., Chief Engineer, St. Louis Smelting & Refining Works of National Lead Co., St. Francis

Montana

SMITH, Miles C., Assistant Superintendent Maintenance, Valier-Montana Land & Water Co., Valier

New Jersey

BELLOFF, ARTHUR B., Federal Shipbuilding Co., Kearney
ELY, ALLEN J., Engineer, Standard Oil Co. of New Jersey, Elizabeth
FYKE, FRANK C., Standard Oil Co., Elizabeth
GOLDSTON, LEONARD, Assistant Engineer of Works, Ind. Lamp & Wire Co., Weehawken
GREGORY, HAROLD D., Newark
HEUSER, CHARLES J., Architect & Mechanical Engineer, Forstmann & Huffmann Co., Passaic
JOHNSON, CHARLES H., Assistant to Chief Engineer, Federal Shipbuilding Co., Kearney
KENDING, ERNEST K., Driver-Harris Co., Harrison
KLEIN, SIDNEY, Engineer, Worthington Pump & Machinery Corp., Harrison
SPARR, ARTHUR H., Construction Engineer, Magor Car Corp., Passaic
STAPLES, JOHN A., Engineer & Chemist, British American Metals Co., Inc., Plainfield
WIBOM, ERIC G., Engineer, Standard Oil Co. (N. J.), Bayonne

New York

ALPERT, SAMUEL, Estimator, Honolulu Iron Works Co., New York
ALTHAUSE, NORMAN K., Assistant Engineer, Consulting Construction Engineers' Office, Guggenheim Brothers, New York
ANDERSON, GUSTAVE A., Tool Engineer, Service Engineering Co., New York
BRAND, MAURICE B., Designing Engineer, The Elbee Co., New York
CERRETA, JOSEPH M., Mechanical Draftsman, The Sperry Gyroscope Co., Brooklyn
CHAMBERLAIN, SAMUEL H., JR., Experimental Engineer, International Time Recording Co. of N. E., Endicott
COLE, ROBERT T., Department Manager, Lockwood Sprinkler Co. of Mass., Buffalo
CORBETT, LAWRENCE W., Superintendent, Electro Bleaching Gas Co., Niagara Falls
DAVOS, LAWRENCE S., Proprietor, Consul Engineering Co., New York
DOWLING, EUGENE, General Manager, Steel Industry Department, H. W. Johns Manville Co., New York
DYER, ORVILLE K., Engineer, Buffalo Forge Co., Buffalo. Re-Election
FLOYD, HAROLD A., Engineer, Union Carbide Co., New York
GAMBLE, WILLIAM J., JR., Superintendent Vulcan Steam Forging Co., Buffalo
GRIGORENKO, VICTOR V., Machine Designer, Service Engineering Co., Inc., New York
HALLORAN, FRANK E., Assistant Torpedo Engineer, E. W. Bliss Co., Brooklyn
HARVEY, WILLIAM D., Regional Sales Manager, Allied Machinery Co. of America, New York.
HENNIG, WALTER A., Assistant Plant Engineer, Pierce Arrow Motor Car Co., Buffalo
HEROD, WILLIAM R., General Electric Co., Schenectady
HOWELL, BURT A., Assistant Plant Engineer, Pierce Arrow Corp., Buffalo
JENNINGS, WALTER F., Mechanical Engineer, Henry L. Doherty, New York
KELLEY, W. MORTON, Sales Engineer, The Roto Company, New York
KEMP, HAROLD A., Superintendent Power Plant, Dunlop America Ltd., Buffalo
KILLION, WILLIAM V., Salesman, H. W. Johns Manville Co., New York
KRASH, BEN, Construction Engineer, Otis Elevator Co., New York
LASKER, WILLIAM W., JR., Brooklyn
LEACH, CHARLES H., Mechanical Engineer, Alberger Heater Co., Buffalo
LEDERER, E. R., Manager, Atlantic Gulf Oil Corp., New York
McCONNELL, EDWARD B., Sales Engineer, M. H. Treadwell Co., New York
McKIBBEN, FRANK P., Professor of Civil Engineering, Union College, Schenectady
MARKS, ALEXANDER, Otis Elevator Co., New York
MERENESS, KNEELAND A., Tank Supervisor, Smith Premier Typewriter Works, Syracuse
MILES, GORDON W., Designer & Draughtsman, Perrin & Marshall, New York
MULLAN, JOS. J., Sales Engineer, C. H. Wheeler Manufacturing Co., New York
PETERSON, ADOLPH, Lieutenant, U. S. Navy, Buffalo
PETERSON, AMOS G., Assistant Sales Manager, Buffalo Steam Pump Co., Buffalo
POTTER, DANIEL F., Sales Engineer, Robertson Cataract Electric Co., Buffalo
PROKOFIEFF, IVAN M., Vice-President, Bureau Technique Francais, Ltd., New York
REYNELL, CARLETON, Purchasing Engineer, American Sugar Refining Co., New York
RICE, HOWARD C., Factory Manager, C. Kurtzmann & Co., Buffalo
RICHMOND, KENNETH C., Industrial Engineer, Miller, Franklin, Basset Co., New York
SAHLIN, E. ALBERT, Brooklyn
SCHELLING, ROBERT F., Engineer in Experimental Laboratory, Pierce Arrow Motor Car Co., Buffalo
SCHNABEL, FERDINAND, President, Deschanel Engineering Corp., New York
SCHULENBERG, WILLIAM L., Maintenance Engineer, American Locomotive Co., Dunkirk
SPENCER, ALBERT W., Estimating Engineer, Pratt Engineering & Machine Co., New York
STREZYNSKI, GEORGE J., Teacher and Manager, Polish Evening Technical School, New York
TICHENOR, CARL M., Assistant General Manager, Pierce Arrow Motor Car Co., Buffalo
WELLER, GERGE L., General Superintendent, Corrugated Bar Co., Buffalo
WELLS, JOHN H., Designing Engineer, J. H. Wells, New York
WITTLINGER, CARL A., Plant Engineer, Tottenville Copper Co., Tottenville
ZADEMACH, ERICH R. L., General Manager, Home Devices Corp., New York
ZIEGLER, WILLIAM C., Industrial Engineer, Ritter Dental Manufacturing Co., Rochester

Ohio

ELFRING, JOHN B., Tool Superintendent, Cincinnati Milling Machine Co., Cincinnati
HAAS, CHARLES E., Chief Inspector, The American Multigraph Co., Cleveland

HAYES, CHARLES H., Foreman, Niles Tool Works Co., Hamilton
HEIDENREICH, GEORGE, District Representative, Ohio Blower Co., Cleveland
KNODE, RUSSELL W., Draftsman, The Jeffrey Manufacturing Co., Columbus
LADKIN, WILLIAM T., Mechanical Draftsman, Columbus Ry. Power & Light Co., Columbus
PARTRIDGE, MERTON E., Mechanical Engineer, Goodyear Tire & Rubber Co., Akron
SCHULTZ, JOHN A., JR., Assistant Manager, Doehler Die Casting Co., Toledo
SIELAFF, MAX J., Manager, The Loomis Sielaff Co., Cleveland
VAN TINE, CHARLES H., Engineer, The DeVore Co., Toledo
WILLARD, WILLIAM C., Professor of Industrial Engineering, University of Cincinnati, Cincinnati
WOOD, HARRY L., Mechanical Engineer, Geo. T. Trundle Co., Cleveland
YEAGER, LEO R., Assistant Engineer, Jeffrey Manufacturing Co., Columbus

Oregon

SHAW, WILLIAM C., Chief Marine Engineer, Northwest Bridge & Iron Co., Portland

Pennsylvania

BENTLEY, ASA, Draftsman, Westinghouse Electric & Manufacturing Co., East Pittsburgh
BISSELL, ROBERT W., Engineer, Vegetable Oil Products Co., Pittsburgh
DECHANT, FREDERICK H., Consulting Engineer, W. H. Dechant & Sons, Reading
EATON, BERNARD. L., Erecting Engineer, William Cramp & Sons Ship & Engine Building Co., Philadelphia
HARLEY, EDWARD J., JR., Designer, Baldwin Locomotive Works, Philadelphia
HARTMAN, JOHN M., Mechanical Engineer, Aluminum Company of America, New Kensington
HAYES, WILLIAM M., Lead Draftsman, Frankford Arsenal, Philadelphia
HURST, EDWARD V., Engineer, U. S. Shipping Board, Emergency Fleet Corp., Philadelphia
JOHNSON, HJALMAR E., Sales Engineer, Laclede-Christy Co., Pittsburgh
MURPHY, EDMUND J. A., Navigator, U.S.S. *Frederick*. Philadelphia
PERROT, EMILE G., Member of Firm, Ballinger & Perrot, Philadelphia
REICHENBACH, HARRY A., Engineer, Fuller Engineering Co., Allentown
RATHMELL, JOHN M., Assistant to Manager, Chicago Pneumatic Tool Co., Franklin
ROBERTS, FRANK C., JR., Estimator, Philadelphia Roll & Machine Co., Philadelphia
STALKNECHT, WARD, Power Engineer, Erie Forge & Steel Co., Erie
SUNDAY, JOHN L., Designer, Philadelphia Electric Co., Philadelphia
TYSON, GEORGE T., Foreman, Barrett Adding Machine Co., Philadelphia
WARWICK, GEORGE W., Engineer of Tests, Armstrong Cork & Insulation Co., Beaver Falls

Tennessee

AYRES, HANES E., Student, University of Tennessee, Knoxville
FULSON, HIRAM O., Chief Draftsman, Union Seed & Fertilizer Co., Memphis

Texas

MCDONALD, WILLIAM A., Superintendent of Power, Houston Lighting & Power Co., Houston

Virginia

NORTON, ANSEL M., Lieutenant (jg.) U. S. Navy Flying Corps, Hampton Roads

Washington

ARKILLS, MURWIN E., Engineer of Tests, Pacific Coast Steel Co., Seattle

Wisconsin

ANDERSON, JOHN, Chief Engineer, The Milwaukee Electric Railway & Light Co., Milwaukee
ANDREWS, EDWARD V., Sales Engineer, Nordberg Manufacturing Co., Milwaukee
BRADLEY, HARRY E., Vice-President & General Manager, Allen-Bradley Co., Milwaukee
GATES, LEROY G., Sales Engineer, Nordberg Manufacturing Co., Milwaukee
GREULICH, O., President, Electric Welding & Manufacturing Co., Milwaukee
JACOBSON, HENRY, Works Manager, Logeman Brothers Co., Milwaukee
LOCKE, THOMAS F., Chief Engineer, A. H. Petersen Manufacturing Co., Milwaukee
LOGEMAN, A. G., President, Logeman Brothers, Milwaukee
MANEGOLD, FRANK L., Secretary & Treasurer, Briggs & Stratton Co., Milwaukee
MASEK, JOHN A., Chief Draftsman, The Falk Co., Milwaukee
NORDBERG, BRUNS V. E., General Sales Manager, Nordberg Manufacturing Co., Milwaukee
SCHWANTES, JULIUS A., Assistant Superintendent & Master Mechanic, The Palmolive Co., Milwaukee
STECK, FRED, Service Engineer, Kempsmith Manufacturing Co., Milwaukee
TAUTZ, HERBERT, Tool Designer, Briggs & Stratton Co., Milwaukee

Canada

BOLAND, ROY O., Plant Draftsman, Northern Aluminum Co., Shawinigan Falls, P.Q.
FREY, FRANK, JR., Canadian Kodak Co., Ltd., Toronto
RUMGAY, JAMES A., Partner, Henry Engineering Co., Toronto, Ontario
WARNER, JOHN E. A., Assistant Engineer, St. Maurice Paper Co., Ltd., Cape Madeleine, Quebec

Argentine Republic

KNUDSEN, KNUD, Technical Director, Corporacion Industrial y Financiera, Argentina, Buenos Aires

Chile

DOUGHERTY, HENRY M., Construction Engineer, Chile Exploration Co., Chuquicamata

Cuba

DEQUASIE, GLENN, Mechanical Engineer, Cuba Cane Sugar Corp., Havana
ELLIOTT, LEE M., Assistant to Chief Electrician, Compania Cubana, Ingenio, Jatibonico

England

HETHERINGTON, JOHN, Chief Engineer & Superintendent, Chromatic Film Printers, Ltd., London

Japan

WUNDERLICH, PAUL, Mechanical Engineer, George A. Fuller Co. of the Orient, Tokyo

Philippine Islands

MCLAUGHLIN, JOHN, Member of Firm, Clarke & Larkin, Manila

Porto Rico

NORTON, JOHN G., Master Mechanic, South Porto Rico Sugar Co., Ensenada

CHANGE OF GRADING
PROMOTION FROM ASSOCIATE

Wisconsin

ASHMEAD, CHARLES B., District Manager, The Richardson-Phenix Co., Milwaukee

PROMOTION FROM ASSOCIATE-MEMBER

Connecticut

BREITENSTEIN, ALBERT F., Chief Engineer, The Geometric Tool Co., New Haven

Colorado

AKERLOW, GUSTAV W., Plant Engineer, The Gates Rubber Co., Denver

District of Columbia

HOOPER, MARTIN T., Senior Mechanical Engineer, U. S. Public Health Service, Office of Chief Engineer, Washington

Massachusetts

GILMAN, FRANKLIN W., Engineer, Sanford Riley Stoker Co., Worcester
HAMMOND, JOHN H., JR., Owner, Hammond Radio Research Laboratory, Gloucester
MIDDLETON, NATHAN A., Engineer, Hornblower & Weeks, Boston

New Jersey

ANDERSON, RICHARD T., Secretary & Plant Engineer Paterson Parchment Paper Co., Passaic
SERRELL, JOHN J., Partner & Engineer, Smith & Serrell, Newark

New York

MCCLINTOCK, ALLAN P., Representative, Locomotive Superheater Co., New York
WILHELM, J. H., Consulting Engineer, J. H. Wilhelm, Inc., New York

Ohio

CALL, ALMON E., Mechanical Engineer, Queen City Coal Co., Cincinnati

Pennsylvania

HOBBS, JAMES C., Assistant Suprintendent of Power Stations, Duquesne Light Co., Pittsburgh

PROMOTION FROM JUNIOR

District of Columbia

OLIPHANT, ABNER C., Engineer, Engineering Council, Washington

Illinois

BOSNIAN, LUTHER H., Engineer, C. P. Berg, Chicago
HIMELBLAU, HENRY, Consulting Engineer, Armour Grain Co., Chicago

New Jersey

WORBOIS, HOMER L., Assistant to President, Spaulding Chain Corp., Bloomfield

New York

STUART, HOMER H., Industrial Engineer, DeLaval Separator Co., Poughkeepsie
WRIGHT, STANLEY, Assistant Eastern Sales Agent, Busch-Sulzer Diesel Engine Co., New York

Pennsylvania

HARRISON, HORACE L., Baldwin Locomotive Works, Philadelphia

SUMMARY

New Applications	205
Applications for Change of Grading:	
Promotion from Associate	1
Promotion from Associate-Member	12
Promotion from Junior	7
Total	225

SUMMARY SHOWING AVERAGE AGE AND POSITIONS OF APPLICANTS ON BALLOT CLOSING JUNE 23, 1920.

Average age of applicants:	
Members	42
Associates	37
Associate-Members	35
Juniors	24
Cadet Engineer	1
Chief Engineers	7
Asst. Chief Engineers	4
Construction Engineer	1
Consulting Engineers	4
Designers	3
Designing Engineer	1
Director	1
Draftsmen	3
Chief Draftsmen	2
Mechanical Draftsmen	2
Engineers	8
Executives (Pres., V.-Pres., Secy., Treas., Mgrs.)	12
Industrial Engineers	2
Inspector	1
Instructors	2
Lieutenant	1
Machine Designer	1
Master Mechanics	3
Mechanical Designer	1
Mechanical Engineers	8
Asst. Mechanical Engineer	1
Chief Mechanical Engineer	1
Plant Engineers	2
Production Engineer	1
Professor	1
Associate Professor	1
Safety Engineer	1
Sales Engineer	1
Asst. Sales Manager	1
Superintendents	6
Asst. Superintendents	2
Mechanical Superintendent	1
Supervising Engineer	1
Supervisor	1
Testing Engineers	2
Works Engineers	3
Works Manager	1
Miscellaneous	46